

CLAIMS:

What is claimed is:

1. An air purifier for mounting to a leading edge of a fan paddle, comprising:
 - a. a self-supporting framework having a plurality of openings therethrough and configured in cross section substantially as a symmetrical array of connected panels;
 - b. a filter medium assembled to the framework; and
 - c. means on the framework for releasably mounting the assembled filter medium and framework to a leading edge of a fan paddle in symmetrical relation thereto.
2. The air purifier described in claim 1, wherein the framework is formed of a material that retains a shape to which it is bent.
3. The air purifier described in claim 1, wherein the filter medium has a first surface that is substantially irregular.
4. The air purifier described in claim 3, wherein the filter medium has a second surface that is relatively regular.
5. The air purifier described in claim 4, wherein the air purifier is assembled with the second surface of the filter medium in contact with the framework.
6. The air purifier described in claim 1, wherein the framework is mounted so that substantially mirror image portions thereof extend above and below a fan paddle edge to which the air purifier is mounted.
7. The air purifier described in claim 1, further comprising an edge protector assembled to cover edges of the framework.

8. The fan mounted air purifier described in claim 1, wherein the filter medium is formed of synthetic fibers.

9. The air purifier described in claim 8, wherein the filter medium is a non-woven fibrous sheet.

10. A fan mounted air purifier, comprising: /
a. a filter medium;
b. a backing framework connected to the filter medium, the combination having a cross section formed as a plurality of angularly oriented planar panels connected to one another at common edges; and
c. means mounted to the backing framework and filter medium adapted to mount the air purifier to straddle a leading edge of a fan paddle so that equal portions of the air purifier reside on either side of the fan paddle edge.

11. The fan mounted air purifier described in claim 10, wherein the backing framework comprises four panels.

12. The fan mounted air purifier described in claim 10, wherein the means to connect the air purifier to straddle a leading edge of a fan paddle comprises adhesive means.

13. The fan mounted air purifier described in claim 12, wherein the adhesive means comprises pressure sensitive adhesive tape.

14. The fan mounted air purifier described in claim 10, wherein the filter medium has one side configured to entrap particles in the ambient air.

15. The fan mounted air purifier described in claim 10, wherein the filter medium is electrostatically charged.

16. The fan mounted air purifier described in claim 10, wherein the filter medium comprises a non-woven fabric.

17. The fan mounted air purifier described in claim 11, wherein the framework panels form two troughs bordered by three peaks, with a central peak engaging the fan paddle edge.